



ARCADIS 6723 Towpath Road PO Box 66 Syracuse New York 13214-0066 Tel 315 446 9120

Fax 315 445 9161

Transmittal Letter

From:

To:
Keith M. Krawczyk
Project Coordinator
MDEQ – Remediation Division
Superfund Section
Constitution Hall
P.O. Box 30426
Lansing, MI 48909-7926

Copies:
Garry Griffith, P.E., Georgia-Pacific LLC
(transmitted via e-mail)
Michael Berkoff, USEPA Region 5
Rich Anson, Terra Contracting Services, LLC
(transmitted via e-mail)
Dawn Penniman, P.E., ARCADIS
Michael Kohagen, ARCADIS
(transmitted via e-mail)

Pat M. Mo	Guire		June 25, 2013	3			
	way Landfill OU – 2 nual Landfill Inspection		ARCADIS Project No B0064583.00				
We are sen ⊠ Enclose		☐ Unde	er Separate Covei	· Via th	e Following Item	ns:	
☐ Shop Dr☐ Prints☐ Other:	rawings	☐ Plans ☐ Samples		Specification Copy of Lett		☐ Change C ☐ Reports	order
Copies			Descripti	on			Action*
1	2013 1 st Semi-Annu	ıal Landfill İnsp	ection Report				F
					· -		
☐ AN A	pproved pproved As Noted s Requested	⊠	CR Correct and F File FA For Approv			Resubmit Co	opies
_	thod stal Service 1 st Class I/Registered Mail		d Delivery of Service (UPS)			☐ FedEx 2-I	•

Comments: Enclosed is the 2013 1st semi-annual landfill inspection report. Please feel free to contact me at

315.671.9233 or pat.mcguire@arcadis-us.com if you have any questions.

Date:

Inspection Date:	5/31/2013	Weather Conditions:	70°F, Partly Sunny, Wind = 15 mph, Humidity 85%, B	ar. Pres. 29.92
Inspectors:	B. Lawrence			
Time Arrived:	1:15 (AM/PM)	Time Departed:	3:30 (AM (PM)	

Inspection Condition Satisfact			Response	Comments/Proposed Action Items			
Items	Yes	No		- Comment of South Name	Nos.		
Cover System		35145,3					
Settlement	×		Strip the soil, place and compact suitable soils within the depression, and replace excavated soil. Once the proper slope is restored, reseed the disturbed area				
Water Ponding	×		Strip the soil, place and compact suitable soils within the depression, and replace excavated soil. Once the proper slope is restored, reseed the disturbed area				
Soil Erosion	x		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth				
Slope Movement/ Failure	х		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth				
Exposed FML	х		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth				
Undesirable Growth (Rooty Trees or Shrubs)	х		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth				
Protruding Objects	x		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth				
Burrowing Animals	х		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth				
Cracks	х		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth				
Disturbance or Loss of Vegetation	х		Reseed areas of lost vegetation. Do not allow vegetation (except for grasses) to establish on the cover				

Inspection	Condi Satisfa		Response	Comments/Proposed Action Items		
Items	Yes	No	Kesponse	Commentan roposed Action terms	Nos	
Sedimentation Ba			Outlet			
Erosion	×	amage	Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth			
Siltation	x		Remove excessive sediment buildup that has caused filling of the basin bottom to elevations above the design elevation (e.g., design elevation near outlet structure is 764.5 feet)			
Debris Buildup		х	Remove debris washed out materials	Soil material produced from hydrovac operation during the recent installation of additional gas probes GW-18 through GW-21 was observed within the settling basin. This material has since been removed from the sedimentation basin and placed in a covered roll-off container, which will be removed from the site prior to the next landfill inspection. Work to be performed by Terra Contracting Services, LLC (Terra).	1	
Condition of Discharge Structures & Inlets	x		Remove any debris or obstructions/blockages. Indicate corrective measures for damaged inlet or discharge structures			
Inappropriate Vegetation	х		Only grass will be allowed to establish on the cover. Roots of trees and shrubs will be cut out. Inspect the area every 2 weeks following removal to ensure that root systems have not returned			
Ditches and Diver	rsion Berm	S				
Siltation	×		Remove excessive sediment buildup			
Debris Buildup	х		Remove debris washed out materials			
Disturbed Vegetation		x	Reseed areas of lost vegetation	Limited vegetative cover was identified in an area east of the sedimentation basin. This area will be to seeded and mulched to promote vegetative growth prior to the next landfill inspection, which will be performed by Terra. In addition, the area will be monitored for vegetative growth during the next landfill inspection.	2, 3, 4	
Erosion	X		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth			

Inspection	Condition					
Items	Satisfactory Yes No		Response	Comments/Proposed Action Items	Photo Nos.	
Culverts	Tes	NO			ESSESSE	
Siltation	×		Remove excessive sediment buildup			
Clogging	X		Remove any debris or obstructions/blockages obstructing flow through the culvert			
Rinran Sheet nil	e Wall and	Frosion	n Control Blankets			
Instability	e wan, and	LIOSIOI	Regrade or place additional appropriate			
or Damage	x		materials (e.g., riprap, topsoil) in affected areas and promptly reseed where necessary to establish vegetative growth. Replace erosion control blankets if damaged. Note damage to sheet pile wall			
Sheet pile Wall			公司 在1000年 1000年		14665	
Soil Erosion, Subsidence, or Cracking Behind Wall	x		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth			
Wall Joints	x		Note any gaps in the wall joints and any material migration from behind the wall			
Overall Wall Stability	×		Note whether the top of the wall has been displaced outward. Note any holes in the wall caused by corrosion			
C	d Daws West	0-11-	A COLUMN TO THE REAL PROPERTY OF THE PARTY O			
Surface Water ar Clogging	Tore wat	er Colle	Remove any debris or obstructions/ blockages			
of Outlets	x		obstructing flow through the pipe			
Evidence of Settlement/ Exposed Materials		х	Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth	Erosion rills were observed on the slope above the south pore water pipe outlet. This area will be regraded and seeded and erosion control blanket installed by Terra to prevent further surface erosion and rill formation and promote the establishment of vegetation to prevent future erosion along the slope. The slope will be monitored during the next landfill inspection for erosion and establishment of vegetation.	5, 6, 7	
Condition of Inlet/Outlets	x		Replace or repair pipes that have been damaged such that flow is obstructed	The south pore water discharge pipe was observed to be under water at the toe of the rip rap. The south pore water pipe cannot be raised and still allow for positive drainage to occur. The pipe appears to be submerged only following significant rainfall events.	8	

Inspection	Condition			
Items	Satisfact		Comments/Proposed Action Items	Photo Nos.
Landfill Gas Mana	Yes Sugar	No		
Condition	igement sys	Replace broken/damage vent pipes. Ex	coosure of	
of Exterior		geomembrane pipe boot above the gro		
Vent Pipe		surface should be noted, as well as any		
Components	X	to the pipe boot.	danlage	
Components		to the pipe boot.		
Condition		Replace broken/damage gas probes or		
of Exterior		components		
Gas Probe				
Components	X			
Fuidance of		Penless vent pines or age probes with		
Evidence of Differential		Replace vent pipes or gas probes with leans or where underground component		
Settlement ¹	TOWN BUT		15 ale	AVAILABILITY OF
Settlement'	X	observed above ground		
	^			
Operation		Repair or replace wind turbine ventilato	rs that	
of Wind Turbine	N. C. State of the Control of the Co	are not turning or have been broken/da		
Ventilators	000000000000000000000000000000000000000			Clerk Charles
	X			
Groundwater Mon	itoring Syst			
Condition		Replace or repair the concrete surface	seal as	
of Surface Seal		necessary. Exposure of geomembrane		A TOTAL PROPERTY.
and Pipe Boot	X	above the ground surface should be no	ted, as	
		well as any damage to the pipe boot.		
Condition		Replace damaged protective casings		
of Protective		Tropiace damaged protective casings		
Casing				
Casing	X			
Condition		Replace damaged caps		
of Cap				75311
	X			
Condition of Locks		Replace locks where missing or damag	ed	
OI LUCKS	N 100 TO			
	X			
	6.00			tree .
Integrity of		Replace broken/damaged monitoring w	ells	
Exterior Well				
Exterior vveii				
	and the latest terminal to the latest terminal t			
Components	X			
	X			

Inspection	Condition Satisfactory		Response	Comments/Proposed Action Items	Photo Nos.
Items	Yes	No			Nos.
Site Access Road	s				
Condition of Roadways	x		Regrade or place additional appropriate materials (e.g., gravel) in depressions to maintain proper drainage and even roadway surface		
Conditions of Access Gates	×		Replace or repair damaged gates. Reattach mesh fencing that has pulled away from the top rail		
Security Systems		<u> </u>			lat is
Condition of Fencing		х	Replace or repair damaged fencing. Removed trees or branches that have fallen onto fencing. Clear vegetation away from fencing. Reattach mesh fencing that has pulled away from the top rail	Multiple sections of fencing were removed during installation of additional gas probes GW-18 through GW-21 along the western perimeter of the site. A 25-foot-long section of barbed wire was observed to be detached from the top rail of fence along southern perimeter of the site. The fence sections will be repaired and the barbed wire will be reattached to the top rail along this section of the fencing by Terra prior to the next inspection.	
Condition of Signs	x		Replace or repair missing or damaged signs to eliminate trespassing		
Condition of Locks	X		Replace missing or damaged locks	All locks in good condition.	

Notes:

1. Evidence of differential settlement includes heaving around vent pipes and/or gas monitoring probes, leaning vent pipes and/or gas monitoring probes, and underground components of vent pipes and/or gas probes exposed above ground surface.

Additional Remarks:			
			1, 97



Photo No. 1: Photo shows the overburden soil material located within the sedimentation basin at the KHL.

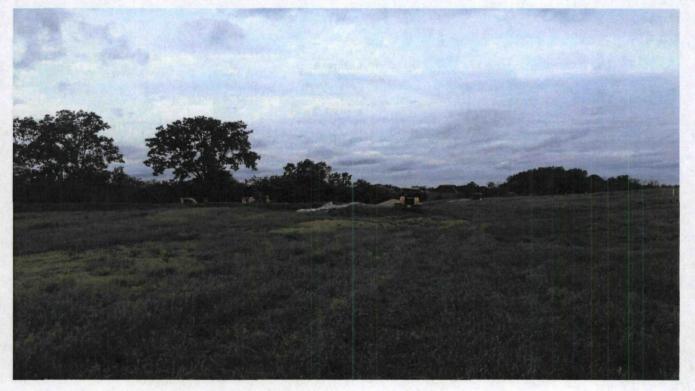


Photo No. 2: Photo shows area of limited vegetation east of the sedimentation basin.

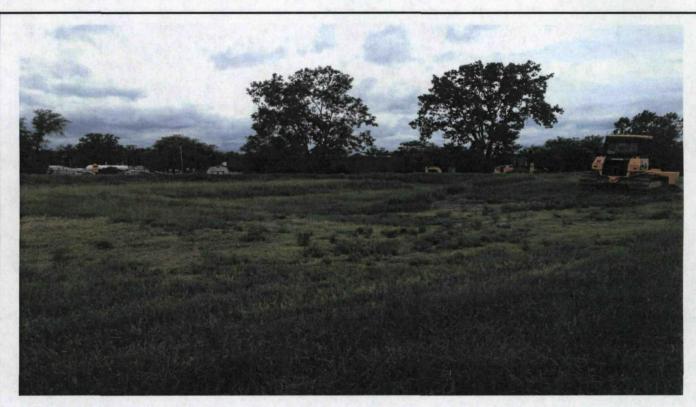


Photo No. 3: Photo shows area of limited vegetation east of the sedimentation basin.

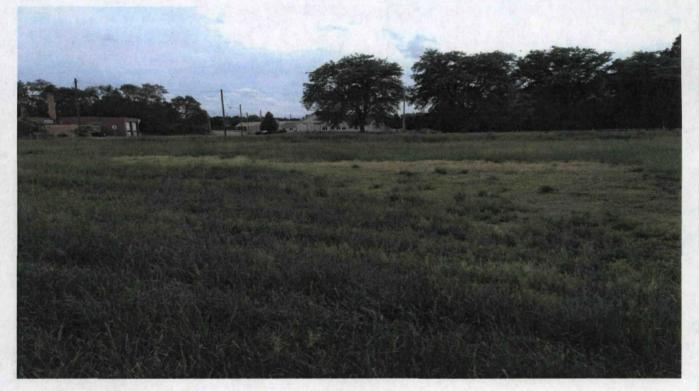


Photo No. 4: Photo shows area of limited vegetation east of the sedimentation basin.

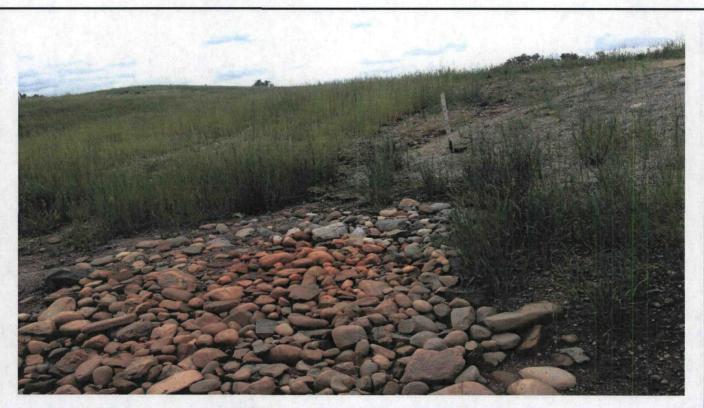


Photo No. 5: Photo shows erosion on the slope above the rip rap at the outlet of the south pore water discharge pipe.

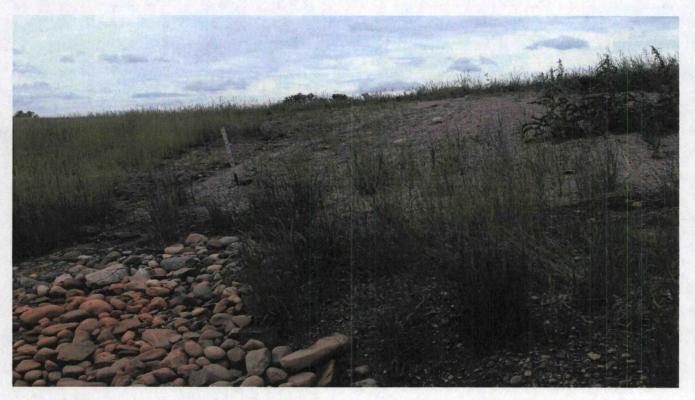


Photo No. 6: Photo shows erosion on the slope above the rip rap at the outlet of the south pore water discharge pipe.

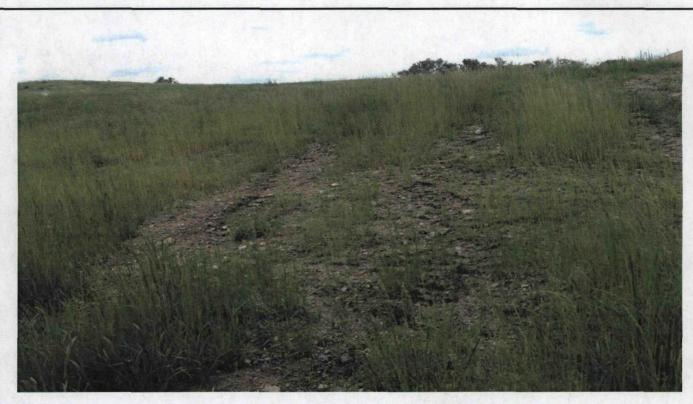


Photo No. 7: Photo shows erosion on the slope above the rip rap at the outlet of the south pore water discharge pipe.



Photo No. 8: Photo shows the outlet of the south pore water discharge pipe under water.

